

Friday, July 20, 2018

Attn: Mr. Keith Gammell Barnhardt Mfg. Co. 247 Main Rd P.O. Box 3 Colrain, MA 01340

Project ID: NPDES JULY 2018

Sample ID#s: CA87584

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis/Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007

ME Lab Registration #CT-007 NH Lab Registration #213693-A,B NJ Lab Registration #CT-003 NY Lab Registration #11301 PA Lab Registration #68-03530 RI Lab Registration #63 UT Lab Registration #CT00007 VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 20, 2018

FOR: Attn: Mr. Keith Gammell

Barnhardt Mfg. Co.

247 Main Rd P.O. Box 3

Colrain, MA 01340

Sample InformationCustody InformationDateTimeMatrix:WASTE WATERCollected by:07/11/187:00Location Code:BARNHARDReceived by:LB07/11/1816:30

Rush Request: Standard Analyzed by: see "By" below

P.O.#: G-9811 Laboratory Data

SDG ID: GCA87584

Phoenix ID: CA87584

Project ID: NPDES JULY 2018

Client ID: EFFLUENT

RL/ Parameter Result **PQL** Units Dilution Date/Time Reference Βy Copper 0.027 0.003 mg/L 1 07/19/18 ΕK E200.7 B.O.D./5 day < 4.0 4.0 mg/L 2 MI/RM SM5210B-11 07/11/18 17:10 Nitrite-N < 0.500 0.500 mg/L 50 07/12/18 00:00 MC E353.2 50 Nitrate-N 27.0 1.00 mg/L 07/12/18 16:33 MC E353.2 8.55 5 0.50 07/13/18 WHM E351.1 Nitrogen Tot Kjeldahl mg/L Total Nitrogen 35.6 0.10 mg/L 1 07/13/18 WHM SM4500NH3/E300.0-97 0.050 5 SM4500PE-11 Phosphorus, as P 4.12 mg/L 07/17/18 14 5.0 1 07/12/18 KL/KDB SM2540D-11 Total Suspended Solids mg/L **Total Metals Digestion** Completed 07/12/18 AG

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 20, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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QA/QC Report

July 20, 2018

QA/QC Data

SDG I.D.: GCA87584

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 438527 (mg/L), QC Sample No: CA87560 (CA87584)													
ICP Metals - Aqueous													
Copper	BRL	0.0025	0.018	0.0187	3.80	99.2			104			75 - 125	20



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QA/QC Report

July 20, 2018

QA/QC Data

SDG I.D.: GCA87584

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	RPD Limits	
QA/QC Batch 439076 (mg/L), (2C Samp	ole No:	CA86117	(CA875	84)									
Phosphorus, as P	BRL	0.01	6.87	6.80	1.00	100			101			85 - 115	20	
Comment:														
Additional: LCS acceptance rang	e is 85-11	5% MS	acceptance	e range 7	′5-125%									
QA/QC Batch 438261 (mg/L), (2C Samp	ole No:	CA87338	(CA875	84)									
B.O.D./5 day	BRL	2.0	<4.0	<4.0	NC	83.3			103			70 - 130	20	
B.O.D./5 day GGA BOD						75.8						84 - 115	20	1
QA/QC Batch 438552 (mg/L), (2C Samp	ole No:	CA87426	(CA875	84)									
Nitrate-N	BRL	0.02	< 0.02	< 0.02	NC	104			97.6			90 - 110	20	
Nitrite-N	BRL	0.01	< 0.010	< 0.01	NC	102			103			90 - 110	20	
QA/QC Batch 438500 (mg/L), (2C Samp	ole No:	CA87533	(CA875	84)									
Total Suspended Solids	BRL	5.0	9.0	10	NC	96.0						85 - 115		
QA/QC Batch 438560 (mg/L), (2C Samp	ole No:	CA87537	(CA875	84)									
Nitrogen Tot Kjeldahl Comment:	BRL	0.10	85.7	84.0	2.00	98.3			NC			85 - 115	20	
TKN is reported as Organic Nitro	gen in the	Blank, L	.CS, DUP a	and MS.										

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis/Shiller, Laboratory Director

July 20, 2018

Friday, July 20, 2018 Criteria: None

Sample Criteria Exceedances Report

GCA87584 - BARNHARD

State: MA

RLAnalysis SampNo Acode Phoenix Analyte Criteria Result RL Criteria Criteria Units

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

^{***} No Data to Display ***



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Analysis Comments

July 20, 2018 SDG I.D.: GCA87584

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

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